ILLEGIB

25X1

Sanitized Copy Approved for Release 2011/09/21 : CIA-RDP89B00487R000300630019-4

SECRE

CHAL-0550

Copy 4 of 6

30 January 1959

MEMORANDUM FOR THE RECORD

Engine in the U-2.

Subject:	Visit to	Concerning J-75	
	The undersigned	visited visited of installing the Ja75mP2 (Nav	

2. The undersigned and net with representatives, and discussed the following subjects:

- A. Conversion of the J-57-31: Conversion of the J-57 to permit higher operating temperatures to attain additional altitude was not considered since the J-75-P2 promised greater gains that could not be achieved by converting the J-57-31.
- B. The J-75-P2 (Mon-afterburner type) is presently under production contract by the Havy to power the "Skymaster." The Skymaster program has been cutback by the Havy which should make sufficient engines available for test purposes.
- C. All concerned agreed that the first step would be for
 to make available two engines to
 conversion.

 is presently borrowing two engines
 from the Mavy which will be diverted from production.
- D. Upon receipt of these two engines notify immediate airlift of one to Burbank in order that Kally Johnson can start fitting. The second engine will remain and be converted as fitting progressess at Burbank.

3. Problems:

- A. Mounting: The J-75 will probably have to be changed from top to side mounting because of top clearance which will require structural changes in the "Bird."
- B. Additional Weight: Approximately 1,250 pounds will be added from engine alone not counting structural changes that will add weight which will reduce range.

SECRET

SECRET

CHAL-0550 PACE TWO

25X1

25X1

25X1 25X1

25X1

2⁵X1

c.	Minimum Flow: The Min. Flow will have to be increased to 650 pounds, to achieve an altitude increase. This could present problems in landing because idle position would produce approximately 50-60%. stated that this problem could be overcome by minor rework of the fuel control through testing.
D.	Range: Due to increased consumption and additional weight the range will decrease to a presently unknown factor, but by using slipper tanks it was assumed that the present flight profile of a non-slippered "Bird" could be attained.
E.	Altitude Gain: would not hazard a gestimate without more facts but conservative estimates indicated an approximate gain of 2,500 feet.
	elearance to permit entry at lockheed and to assist in installation and testing. PHS of the two individuals have been given to security for post-haste processed as remidly as possible due to the fact that one of the individuals will accompany the first engine to lockheed which could be within a few days after Navy O.K.'s the loan. mary: Application of the J-75-P2 in the "Bird" is nost
promising is that greates	respect to altitude gain. This writer is of the opinion regains will be possible based on prior performance of therefore, it is recommanded that this program be pursued
"post-heste	to accomplish necessary testing.
Dist: 0 - 2 - 3 - 1 - 5 -	Operations Security Contracts

SECRET

Egg.